

Di-PRO® MACHINES**LOW-VIBRATING POLISHING/FILING MACHINES FOR IMPROVED ERGONOMICS**

The Di-PRO® machine is the flagship of the Diprofil family. With its low levels of potentially harmful vibrations, it is the natural choice when operating the machine for long hours. It is ideal for a wide variety of applications such as filing, lapping, honing, de-burring and polishing.

With their reciprocating (back and forth) movement, the Di-PRO polishing/filing machines are an excellent alternative and complement to rotary hand-pieces.

Advantages with the Di-PRO machines:

- ✓ Made in Sweden since 2007
- ✓ Very low levels of potentially harmful vibrations
- ✓ Worldwide service network
- ✓ Adjustable stroke length 0 – 6 mm
- ✓ Well-known and trusted design
- ✓ Available for/with a wide variety of drive sources

TECHNICAL DATA

Flexible Shaft-Driven Machine - FXK-N

Slip-joint connection (European Standard)



Drive source:	The FXK-N model is driven by an electrical motor with speed control and a flexible-shaft with slip-joint connection (European standard) e.g. Diprofil type DSE-47. Corresponding motors of other brands may also be used.
Speed (maximum):	7.000 rpm.
Speed (recommended):	5.000 – 6.000 rpm
Stroke length:	0 – 6 mm. (recommended 0,5 – 3 mm). NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm.
Tool holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum 34 g. Recommended 1-15 g
Applied feed force:	2-12N (depending on inserted tool type and dimension).
Machine weight:	Approx. 700 g. (depending on model)
Noise level:	Not exceeding 75 dB(A) at 7.000 rpm.
Vibration levels:	See information on next page.
Item No:	FXK-N

Flexible Shaft-Driven Machines - FXH-N & FXS-N

Ball-joint connection (US standard, Square-Hole or Key-Hole)



Drive source:	The FXH-N and FXS-N models are driven by an electrical motor with speed control and a flexible-shaft with ball-joint connection (US standard) e.g. Diprofil type DSE-47. Corresponding motors of other brands may also be used.
Speed (maximum):	7.000 rpm.
Speed (recommended):	5.000 – 6.000 rpm
Stroke length:	0 – 6 mm. (recommended 0,5 – 3 mm). NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm.
Tool holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum 34 g. Recommended 1-15 g
Applied feed force:	2-12N (depending on inserted tool type and dimension).
Machine weight:	Approx. 700 g. (depending on model)
Noise level:	Not exceeding 75 dB(A) at 7.000 rpm.
Vibration levels:	See information on next page.
Item No:	FXH-N (Square-Hole) FXS-N (Key-Hole)

Air-Driven Machine - FXL-N



Drive source:	The FXL-N model is driven by compressed and oil mist lubricated air. PLEASE NOTE! The built-in air-motor may be damaged, if operated with un-lubricated air.
Connection:	The Diprofil quick-coupling HSL-M and fog lubrication unit MFB should be used for connection to your compressed air system. PLEASE NOTE! Protect the air inlet from dust and dirt, when not in operation.
Oil consumption:	Minimum 30 mm ³ /min. at maximum speed (about 2 drops/min.).
Air pressure:	4 bar (57 psi).
Air consumption:	Approx. 60 l/min at 7.000 rpm
Speed (maximum):	7.000 rpm.
Speed (recommended):	5.000 – 6.000 rpm
Stroke length:	0 – 6 mm (recommended 0,5 – 3 mm). NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm.
Tool-holder:	Ø 6,4 mm. (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum 34 g. Recommended 1-15 g
Applied feed force:	2-12 N (depending on inserted tool type and dimension).
Machine weight:	Approx. 900 g.
Noise level:	Not exceeding 75 dB(A) at 7.000 rpm
Vibration levels:	See information below.
Item No:	FXL-N

Micro Motor-Driven Machines - FXM-N (Diprofil connector) and FXM/EJ-N (Eneska 3-1 connector)

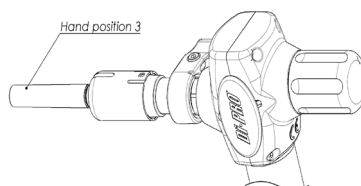
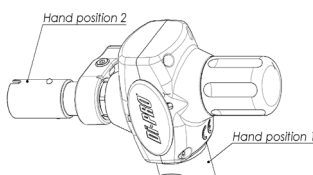


Drive source:	The FXM-N and FXM/EJ-N models are driven by a built-in micro-motor, which is connected to, and controlled by, the power unit DIPROFIL DPU-3 or TPU-20 or corresponding power units.
Output:	DC 0-32V. (The needed voltage at a certain rpm is depending on the micro motor and the power unit).
Speed (maximum):	7.000 rpm.
Speed (recommended):	5.000 – 6.000 rpm
Stroke length:	0 – 6 mm (recommended 0,5 – 3 mm). NOTE! At stroke lengths exceeding 4 mm we recommend a maximum speed of 5.000 rpm.
Tool-holder:	Ø 6,4 mm (suitable for tool shanks Ø 2 - Ø 6,4 mm)
Weight of inserted tool:	Maximum 34 g. Recommended 1-15 g
Applied feed force:	2-12 N (depending on inserted tool type and dimension).
Machine weight:	Approx. 860 g.
Noise level:	Not exceeding 75 dB(A) at 7.000 rpm.
Vibration levels:	See information below.
Item No:	FXM-N (Diprofil connector) FXM/EJ-N (Eneska 3-1 connector)

Measured vibration emission values (m/s²):

The uncertainty value (K) is also expressed in m/s² and is intended to compensate for different batches, production variations etc.

Hand position 1:	1,55 m/s ²	(K = 0,65 m/s ²)
Hand position 2:	5,08 m/s ²	(K = 1,00 m/s ²)
Hand position 3:	3,64 m/s ²	(K = 0,86 m/s ²)



DIPROFIL[®]

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